CORRECTED VERSION

PATENT COOPERATION TREATY

PCT

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PCTAU0201594:MLT:GP	bee Notified bee Notified of The Shifted of the Charles of the Charles					
International Application No.	ational Application No. International Filing Date Priority Date (day/month/year)		Priority Date (day/month/year)			
PCT/AU2002/001594	27 November 2002		27 November 2002			
International Patent Classification (IPC) or national classification and IPC						
Int. Cl. ⁷ C07C 67/08, 69/34						
Applicant						
BIODIESEL AUSTRALIA Pty L	td et al		·			
1 This international preliminary evamination	ion report has been prepa	red by this Internation	onal Preliminary Evamining Authority and			
1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.						
2. This REPORT consists of a total of 4	sheets, including this co	ver sheet.	·			
	This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been					
	amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
These annexes consist of a total of		MOT MOT 01).				
3. This report contains indications relating	to the following items:					
I X Basis of the report						
· II Priority						
III Non-establishment of opin	inion with regard to novelty, inventive step and industrial applicability					
IV Lack of unity of invention	ı					
	er Article 35(2) with regard to novelty, inventive step or industrial applicability; is supporting such statement					
VI. X Certain documents cited						
VII Certain defects in the inte	ernational application					
VIII Certain observations on the	the international application					
Date of submission of the demand	<u> </u>	ate of completion of	F the report			
14 May 2004	1	Date of completion of the report 3 June 2004				
Name and mailing address of the IPEA/AU	A	Authorized Officer				
AUSTRALIAN PATENT OFFICE			·			
PO BOX 200, WODEN ACT 2606, AUSTRAL E-mail address: pct@ipaustralia.gov.au		. LEVER	Į.			
Facsimile No. (02) 6285 3929		Telephone No. (02) 6283 2263				

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/AU2002/001594

I.	Basis of the report
1.	With regard to the elements of the international application:*
	X the international application as originally filed.
	the description, pages, as originally filed,
	pages, filed with the demand, pages, received on with the letter of
	the claims, pages, as originally filed,
	10 7 10 10 10 10 10 10 10 10 10 10 10 10 10
	pages , as amended (together with any statement) under Article 19,
	pages, filed with the demand, pages, received on with the letter of
	pages , filed with the demand,
	pages, received on with the letter of the sequence listing part of the description:
	pages, as originally filed
	pages, filed with the demand
_	pages, received on with the letter of
2.	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in
	which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language which is:
	the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
	the language of publication of the international application (under Rule 48.3(b)).
	the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).
3.	
٥.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:
	contained in the international application in written form.
	filed together with the international application in computer readable form.
	·
	furnished subsequently to this Authority in written form.
	furnished subsequently to this Authority in computer readable form.
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the
	international application as filed has been furnished.
	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished
4.	The amendments have resulted in the cancellation of:
-	
	the description, pages
	the claims, Nos.
	the drawings, sheets/fig.
5.	This report has been established as if (some of) the amendments had not been made, since they have been considered to
	go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
*	Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this
**	report as Signally field and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).
	Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/AU2002/001594

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1.	Statement		
	Novelty (N)	Claims 1-13	YES
		Claims	NO
	Inventive step (IS)	Claims 1-13	YES
		Claims	NO .
	Industrial applicability (IA)	Claims 1-13	YES
		Claims	NO

2. Citations and explanations (Rule 70.7)

EP 249,463 A2 (BIO-ENERGY TECHNOLOGY LTD)

This document discloses a process similar to that of the current invention where a bio-fuel is produced from a triglyceride containing substance like vegetable and seed oils. Firstly an acid catalyst in an alcohol environment is added to the triglyceride substance affecting an esterification of the free fatty acids to methyl esters.

In the next step a basic catalyst dissolved in alcohol is added to achieve further esterification. Finally Phosphoric acid and a washing mixture added to allow separation of the phases. The ester phase can then be removed. There is also a optional step after the second esterification where glycerol is removed.

This process differs from the one of the current invention in that it does not require the washing step and that the alcohol is removed by distillation after the second esterification. The current process also avoids the production of the by-product glycerol.

AU 80742/91 A1(VOGEL & NOOT INDUSTRIEANLAGENBAU GESELLSCHAFT M.B.H)

This document also discloses an esterification process of fatty acids in the presence of alcohols and a basic catalyst. However there is no esterification with an acid catalyst. This process also requires the step to separate out the glycerol produced as a by-product.

Thus it is considered that the claims are Novel, involve an Inventive Step and are Industrially Applicable.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

•			PC1/AU2002/001594
VI. Certain documents ci	ted		
1. Certain published documen	ts (Rule 70.10)		
Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
AU 44481/02	5 December 2002	31 May 2002	31 May 2001
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This document while publish	ed after the filing date of curre	nt application has an earlie	r priority date and will be
relevant under Australian La	w, there are no other foreign eq	uivalents.	·
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	·		
2. Non-written disclosures (Ru			
Kind of non-written disclo	sure Date of non-wr. (day/mor		e of written disclosure referring to non-written disclosure . (day/month/year)
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